

ARCS PROCEDURE	TIPPING BUCKET RAIN GAUGE MAINTENANCE TEST	PRO(TIPB)-001.000
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Tipping Bucket Rain Gauge Maintenance Test

I. Purpose:

This document outlines procedure for Tip Bucket Rain Gauge weekly preventative maintenance test.

II. Cautions and Hazards:

- None.

III. Requirements:

- None.

IV. Procedure:

A. Testing Tip Bucket

1. Disconnect RS232 cable from CR1000 data logger and log the time.
2. Set flag 7 on CR1000 to HIGH (or 1).
3. LED should now flash once every 10 milliseconds.
4. Manually tip rain gauge bucket several times.
5. Check output of **maintenance_flag** variable – It should be equal to 1.
6. Check output of variable **rain_mm** – It should be equal to # tips x 0.254.
7. Reset flag 7 to LOW (or 0) and log the time of reset.
8. Reconnect RS232 cable from CR1000 data logger to server NL100.
9. Check to see LED is flashing once a second, not once every 10 milliseconds.

V. References:

1. None.

VI. Attachments:

1. None.